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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/834,591	(	)4/13/2001	Kenneth James Barker	RAL920000013US2	4261
25299	7590	12/01/2004		EXAMINER	
IBM CORP		N	CHANG, RICHARD		
PO BOX 12195 DEPT 9CCA, BLDG 002				ART UNIT	PAPER NUMBER
	RESEARCH TRIANGLE PARK, NC 27709				

DATE MAILED: 12/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/834,591	BARKER ET AL.					
Office Action Summary	Examiner	Art Unit					
	Richard Chang	2663					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status		•					
1) Responsive to communication(s) filed on <u>18 April 2002</u> .							
2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This	☐ This action is <b>FINAL</b> . 2b) ☑ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>9</u> is/are allowed.							
6)⊠ Claim(s) <u>1 and 4</u> is/are rejected.							
7) Claim(s) <u>2,3,5-8 and 10</u> is/are objected to							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>04/18/2002</u> is/are: a) accepted or b)⊠ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(c)		·					
Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5)  Notice of Informal F 6) Other:	Patent Application (PTO-152)					
	, <del></del>						

### **DETAILED ACTION**

1. New corrected drawings in compliance with 37 CFR 1.121(d) is required in this application because

In <u>Fig. 3</u>, the mark "X" at column labeled "Clock 0" and row labeled "strobe" is missing. It should be mark "X" to be consistent with the specification.

The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art in view of US patent 4,731,785 ("Ferenc.").

Regarding Claims 1 and 4, The admitted prior art teaches a fast Ethernet system (2), which services 10 Ethernet networks (6) (for coupling a plurality of sources to a single processing chip) comprising of:

a multi-port physical layer (4) (a substrate including a system for processing Ethernet inputs), Art Unit: 2663

a chip clock at a particular speed allowing each of the ports to be serviced during each of the clock cycles (a clock input for determining a time period for processing the input from a single source) (See Fig. 1, page 6, line 17 – page 7, line 13).

The admitted prior art lacks or does not disclose expressly the particular application involving limitation of

"a single input gate for a single input" and

"a sequencer which determines which source is being processed during the time period and which services a different source during the next clock period".

Ferenc teaches apparatus and a method for transmitting both circuit switch and packet information over a common time division multiplexed digital path comprising of

a single common time division multiplexed (TDM) digital signal path conductor (109) (a single input gate for a single input) between transmitter (101) and receiver (121) (See Fig. 1, Col 4, lines 35-36), and

a circuit switch (102) (TDM sequencer) supplying necessary clock and timing signals to control multiplexer (105) (determines which source is being processed during the time period and which services a different source during the next clock period) (See Fig. 3, Col 6, lines 56-60).

A person of ordinary skill in the art would have been motivated to employ Ferenc in the admitted prior art in order to obtain a fast Ethernet system servicing a plurality of Ethernet networks and to take advantage of using only a single TDM link and the TDM sequencer to service different sources at different time period in claims 1 and 4.

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The suggestion/motivation to do so would have been to transmit data from different sources on a single TDM link, as suggested by Ferenc in Col. 1, line 64, to Col. 2, line 1. At the time the invention was made, therefore, it would have been obvious to one of ordinary skill in the art to which the invention pertains to combine Ferenc with the admitted prior art to obtain the inventions specified in claims 1 and 4.

## Allowable Subject Matter

- 4. Claims 2-3, 5-8 and 10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims and if no art rejection can be applied.
  - 5. Claim 9 is allowed.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard Chang whose telephone number is (571) 272-3129. The examiner can normally be reached on Monday - Friday from 8 AM to 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau T Nguyen can be reached on (571) 272-3126. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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rkc

Richard Chang Patent Examiner Art Unit 2663 Page 5

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